

B.Sc. Semester - 5 (CBCS) Examination**December -2020 (NEW COURSE)****Functional Anatomy of Non chordates and Systematic (Core)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Q. 1 (A) Answer the following questions. (Any one out of two) 07

1. Give the classification of phylum Echinodermata upto class with reasons and suitable examples.
2. Give the classification of phylum Arthropoda upto class with reasons and suitable examples.

Q. 1 (B) Answer the following questions. (Any one out of two) 04

1. Classify phylum Coelelenterata upto class with reason.
2. Classify phylum Platyhelminthes upto class with reason.

Q. 1 (C) Answer the following questions. (Any three out of five) 03

1. Daphnia belongs to class.....
2. Trichuris belongs to phylum.....class.....order.....
3. Coelomate animals are found first in phylum.....
4. Which class of porifera bears spicules made up of Calcium?
5. Radulla is a characteristic of phylum.....

Q. 2 (A) Answer the following questions. (Any one out of two) 07

1. Describe: Nervous system of Scorpion.
2. Describe: Digestive system of Pila.

Q. 2 (B) Answer the following questions. (Any one out of two) 04

1. Describe the structure and function of book lungs and pecten.
2. Describe: Male reproductive system of Pila.

Q. 2 (C) Answer the following questions. (Any three out of five) 03

1. Respiratory pigment in Pila is.....
2. List out the food of Scorpion.
3. Which excretory organs are found in scorpion?
4. Scientific name of Pila is.....
5. In Pila;is used for balancing.

Q. 3 (A) Answer the following questions. (Any one out of two) 07

1. Give a general account of reproduction in protozoa.
2. Describe: Reproduction in sponges.

- Q. 3 (B) Answer the following questions. (Any one out of two)** **04**
1. Write short note on: Sleeping sickness- mode of infection, diagnosis, treatment, and preventive measures.
 2. What are coral reefs? Describe only the types of coral reefs in brief.
- Q. 3 (C) Answer the following questions. (Any three out of five)** **03**
1. Give any two symptoms of disease caused by Giardia.
 2. List out the larval stages seen in the development of Sponges.
 3. What is polymorphism?
 4. List out the types of sponge spicules.
 5. Which type of nutrition is found in Euglena?
- Q. 4 (A) Answer the following questions. (Any one out of two)** **07**
1. Describe: Life cycle of *Fasciola hepatica*.
 2. Give a general account of metamorphosis in insects.
- Q. 4 (B) Answer the following questions. (Any one out of two)** **04**
1. Write a short note on asexual reproduction in polychaeta.
 2. Describe: Megalopa and Nauplius larva.
- Q. 4 (C) Answer the following questions. (Any three out of five)** **03**
1. Scientific name of Hook worm is.....
 2. Which disease is caused by *Trichinella spiralis*?
 3. Which type of metamerism is seen in Nereis?
 4. Phyllosoma is the larva of.....animal.
 5. List out the dyes derived from insects.
- Q. 5 (A) Answer the following questions. (Any one out of two)** **07**
1. Describe: Water vascular system of Starfish.
 2. Give a general account of Economic Importance of Mollusca.
- Q. 5 (B) Answer the following questions. (Any one out of two)** **04**
1. Write a short note on Tornaria Larva.
 2. Write a short note on Bipinnaria and Auricularia larva.
- Q. 5 (C) Answer the following questions. (Any three out of five)** **03**
1. Give the name of the larva of Sea urchin.
 2. In which animal, parapodia are found?
 3. In which animal, leaping foot is found?
 4. Which type of coelom is found during development of Echinoderms?
 5. What is 'Mother of Pearl'?
